32. (Amended) The apparatus according to claim 31, wherein the pressure release opening is a flap or a weighted safety valve.

REMARKS

Entry of the foregoing amendment is respectfully requested prior to examination of the application.

Applicants respectfully note that, upon entry of the present amendment, claims 1-32 will be amended to clarify their language.

Applicants note that the present amendment is being presented to even more clearly recite Applicants' invention by placing the claimed subject matter even more in accordance with standard U.S. practice and idiomatic English, and no estoppel should be deemed attached thereto.

Should there be any questions, the Examiner is invited to contact the undersigned at the below listed number.

Respectfully submitted,
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APPENDIX
MARKED-UP COPY OF AMENDMENTS TO SPECIFICATION

Marked-up copy of paragraph **[0017]**:

[0017] The object of the invention is <u>to</u> achieve as completely as possible the removal of recoverable waste products and non-recoverable waste products [used], using a device that is simpler to use and easier to regulate, while reducing the environmental impact to a minimum.

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MARKED-UP COPY OF AMENDED CLAIMS 1-32

1. (Amended) [Method] A method for removing recoverable waste products and non-recoverable waste products, [with which the] comprising feeding recoverable waste products and non-recoverable waste products [are fed into in an essentially] into one end of a substantially horizontally fixed container as material [from one side], [and in it] continuously [and] or discontinuously [transported to the other side] transporting the material to another end of the container, [with] 60 - 80% of [the] energy input being carried out on the material in [the] an area of [the side of the inflow of the material in the] a first quarter of the container based upon the one end of the container into which the material is fed, and [the] a remaining 20 - 40% of [the] energy input being transferred to the material in [the] other areas of the container, [the] discharging an entire exhaust gas-solids mixture [is discharged] from the container, and subsequently subjecting the exhaust gases and the solids [are subjected] to an energy recovery process.

2. (Amended) [Method] The method according to claim 1, [in which the inserted] wherein the materials [feature] fed to the container comprise a residual moisture of 10%.

3. (Amended) [Method] The method according to claim 1, [in which] wherein the material is transported continuously at a speed of 18 m/h to [the] a discharge opening.

4. (Amended) [Method] The method according to claim 1, [in which] wherein an energy input on the material of 70% is carried out in the first quarter of the container.

5. (Amended) [Method] The method according to claim 1, [in which in] wherein each further quarter of the container subsequent to the first quarter includes an energy input of 10% [each is carried out].

6. (Amended) [Method] The method according to claim 1, [in which the] wherein energy input in the first quarter is carried out by a burner.

7. (Amended) [Method] The method according to claim 1, [in which] wherein the energy input in [the further quarters of] the other areas of the container is carried out by heated air.

8. (Amended) [Method] The method according to claim 1, [in which] wherein the energy input is carried out at least in the first quarter directly on the material.

9. (Amended) [Method] The method according to claim 1, [in which] wherein a maximum temperature of 600 -700 °C is implemented in the container to start the process.

10. (Amended) [Method] The method according to claim 1, [in which] wherein the discharged exhaust gas-solids mixture is fed into a device for cracking [the] long-chain hydrocarbons after the container.

11. (Amended) [Method] The method according to claim 1, [in which] wherein after [the container the] being discharged from the container the exhaust gas-solids mixture or after [the]cracking of [the] long-chain hydrocarbons in a further process, the exhaust gas-solids mixture is conveyed to a device for [the] gasification of [the] energy components.

12. (Amended) [Method] The method according to claim 11, [in which] wherein the gasification is carried out with hypostoichiometric air supply.

13. (Amended) [Method] The method according to claim 11 [in which] , wherein the gasification [process] is regulated via [the] a partial combustion process.

14. (Amended) [Method] The method according to claim 11, [in which] wherein steam is added to the gasification process.

15. (Amended) [Device] An apparatus for removing recoverable waste products and non-recoverable waste products, comprising a tubular container with a feed opening for [the] recoverable and non-recoverable waste products as material on one [side] end, [and with] a discharge opening for the exhaust gas-solids mixture on [the other side] another end, a shaft arranged centrally through the container, [on which] devices [are located] positioned on said shaft, and at least one of a device for cracking hydrocarbons [and/or] and a device for [the] gasification of [the] solids from the container [, that are arranged] positioned after the discharge opening of the container.

16. (Amended) [Device] The apparatus according to claim 15, [in which] wherein the tubular container is [made] composed of sheet metal in a double-walled construction.

17. (Amended) [Device] The apparatus according to claim 15, [in which] wherein the feed opening is arranged as a stuffing screw with a gate valve in [the] an upper front area of the container.

18. (Amended) [Device] The apparatus according to claim 15, [in which] wherein a burner is arranged in [the] a lower front area of the container.

19. (Amended) [Device] The apparatus according to claim 15, [in which] wherein the shaft is [constructed in] tubular [form].

20. (Amended) [Device] The apparatus according to claim 15, [in which] wherein the devices positioned on the shaft comprise devices to transport the material [are installed on the shaft].

21. (Amended) [Device] The apparatus according to claim 20, [in which] wherein the devices positioned on the shaft are paddles.

22. (Amended) [Device] The apparatus according to claim 20, [in which] wherein the paddles [feature] comprise pitched surfaces.

23. (Amended) [Device] The apparatus according to claim 15, [in which] wherein the devices positioned on the shaft are attached to the shaft with keyed joints.

24. (Amended) [Device] The apparatus according to claim 15, [in which] wherein the shaft is located outside the container.

25. (Amended) [Device] The apparatus according to claim 15, [in which] wherein grates to collect the material are arranged over [the] an entire length of the container in [the] a lower area.

26. (Amended) [Device] The apparatus according to claim 15, [in which] wherein a blade-like device is arranged at the discharge opening of the container for discharging the exhaust gas-solids mixture.

27. (Amended) [Device] The apparatus according to claim 15, [in which] wherein a device for cracking [the] long-chain hydrocarbons and a device for the gasification of the exhaust gas-solids mixture are [arranged] positioned after the container.

28. (Amended) [Device] The apparatus according to claim 27, [in which] wherein the device for cracking long-chain hydrocarbons and the device for the gasification of the exhaust gas-solids mixture [the cracking and the gasification are carried out in] comprise one device.

29. (Amended) [Device] The apparatus according to claim 15, [in which] wherein the tubular container [features] comprises an ignition source in [the] an area of the discharge opening.

30. (Amended) [Device] The apparatus according to claim 29, [in which] wherein the ignition source is a burner with an open flame or a spiral-wound filament.

31. (Amended) [Device] The apparatus according to claim 15, [in which] wherein the tubular container [features] comprises a pressure release opening in [the] an upper part in [the] an area of the discharge opening.

32. (Amended) [Device] The apparatus according to claim 31, [in which] wherein the pressure release opening is a flap or a weighted safety valve.